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AMENDMENTS TO THE CLAIMS:

- 1) (Currently Amended) A computer implemented method for provisioning broadband service in a Point-to-Point Protocol over Ethernet (PPPoE) network, comprising:
transmitting an authentication request including a user identifier from a modem to multiple domain names of an Internet Service Provider (ISP) over a PPPoE network ; and
receiving authorization for the modem from at least one but not all of said domain names of the ISP associated with said user identifier.
- 2) (Currently Amended) The method of claim 1, further comprising, prior to said transmitting step, the step of providing a modem that includes a list of said multiple domain names for the ISP, where each of said domain names is associated with a different Broadband Service Node (BSN).
- 3) (Original) The method of claim 1, further comprising, prior to said transmitting step, the step of establishing a PPPoE session.
- 4) (Currently Amended) The method of claim 1, further comprising, prior to said transmitting step, the steps of:
requesting only a single user identifier from a user of a client computer;
receiving said user identifier; and
storing said user identifier in the modem.
- 5) (Currently Amended) The method of claim 4, wherein said transmitting step comprises transmitting an authorization request containing said user identifier and a generic password to each of said multiple domain names.
- 6) (Original) A method of claim 1, wherein said receiving step comprises acquiring at least one static Internet Protocol (IP) address.
- 7) (Currently Amended) The method of claim 6, further comprising:

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transmitting a configuration request to the ISP an Internet Service Provider (ISP), where said configuration request is addressed from said static IP address;
receiving full configuration details from said ISP, where said full configuration details are addressed to said static IP address; and
automatically configuring said modem based on said full configuration details.

8) (Currently Amended) A system for provisioning broadband service in a Point-to-Point Protocol Over Ethernet (PPPoE) network, comprising:

at least one client computer;
a modem coupled to said client computer, said modem including a memory comprising:

instructions for transmitting an authentication request including a user identifier from said modem to multiple domain names of an Internet Service Provider (ISP) over a PPPoE network; and

instructions for receiving authorization for the modem from at least one but not all of said domain names of the ISP associated with said user identifier;

multiple Broadband Service Nodes (BSNs) coupled to said modem, where each of said multiple domain names is associated with a different one of said multiple BSNs; and

an authentication server coupled to each one of said multiple BSNs, said authentication server transmitting authorization for the modem for the domain names that are associated with the user identifier.

9) (Original) The system of claim 8, further comprising:

a Digital Subscriber Line Access Multiplexor (DSLAM) coupled between said modem and said BSNs;

an Asynchronous Transfer Mode (ATM) network coupled between said DSLAM and said BSNs; and

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a Broadband Remote Access Server (BRAS) coupled between said ATM network and said BSNs.

10) (Original) The system of claim 8, wherein said BSNs are coupled to the Internet.

11) (Currently Amended) The system of claim 8 10, wherein said receiving step comprises acquiring at least one static Internet Protocol (IP) address to establish connectivity to the Internet ~~memory further comprises a generic password.~~

12) (Currently Amended) A ~~computer program product~~ modem for use in conjunction with a computer system for provisioning broadband service in a Point-to-Point Protocol Over Ethernet (PPPoE) network, the ~~computer program product comprising a computer readable storage and a computer program stored therein, the computer program~~ modem comprising:

instructions for transmitting an authentication request including a user identifier from said modem to multiple domain names of an Internet Service Provider (ISP) over a PPPoE network ; and

instructions for receiving authorization for the modem from at least one but not all of said domain names of the ISP associated with said user identifier.

13) (New) The modem of claim 12, further comprising:

instructions for causing a client computer to request the user identifier;
and

instructions for receiving the user identifier from the client computer and storing the user identifier in the modem.

14) (New) The modem of claim 12, further comprising

Storing a list of a plurality of possible domain names to query for authorization for an ISP.

15) (New) The modem of claim 12, wherein said receiving step comprises acquiring at least one static Internet Protocol (IP) address to establish connectivity to the Internet.

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16) (New) The modem of claim 12, wherein said instructions cause the client computer to request a single user identifier once.

17) (New) A modem for use in conjunction with a computer system for provisioning broadband service in a Point-to-Point Protocol Over Ethernet (PPPoE) network, the modem comprising:

- instructions for causing a client computer to request a user identifier; and
- instructions for receiving the user identifier from the client computer and storing the user identifier in the modem.

- Storing a list of a plurality of possible domain names to query for authorization for an ISP.

- instructions for transmitting an authentication request including a user identifier from said modem to multiple domain names of an Internet Service Provider (ISP) over a PPPoE network ; and

- instructions for receiving authorization for the modem from at least one but not all of said domain names of the ISP associated with said user identifier and acquiring at least one static Internet Protocol (IP) address to establish connectivity to the Internet.

18) (New) A system for provisioning broadband service in a Point-to-Point Protocol Over Ethernet (PPPoE) network, comprising:

- multiple Broadband Service Nodes (BSNs) of an internet service provider (ISP), each said BSN associated with a different domain name;

- an authentication server coupled to each one of said multiple BSNs, said authentication server including a table that lists user identifiers against static IP addresses;

- at least one client computer; and

- a modem coupled to said client computer, said modem including a memory comprising:

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instructions for requesting a user identifier from the client computer;

instructions for receiving the user identifier from the client computer and storing the user identifier in said modem;

a list of a plurality of possible BSN domain names to query for authorization for an ISP;

instructions for transmitting an authentication request including the user identifier from said modem to the listed domain names of the ISP over a PPPoE network ; and

instructions for receiving authorization for the modem and a static IP address from at least one but not all of said domain names of the ISP associated with said user identifier;

said possible BSNs querying their authentication server to determine whether the user identifier in the authentication request is listed in the table, if listed authorization including the static IP address from at least one of said domain names being transmitted back to the modem to establish connectivity to the Internet.